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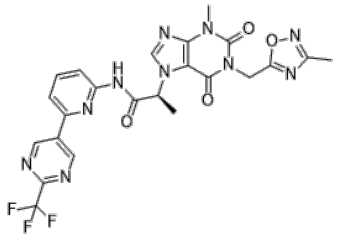
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	LY3526318
Cat. No.	:	PC-23622
CAS No.	:	1889218-34-1
Molecular Formula	:	$C_{23}H_{19}F_3N_{10}O_4$
Molecular Weight	:	556.47
Target	:	TRP Channel
Solubility	:	10 mM in DMSO



Biological Activity

LY3526318 is a potent, selective, and orally bioavailable **TRPA1** antagonist, inhibits human TRPA1 channel-mediated inward currents with IC50 of 13.5 nM.
LY3526318 also potently inhibits rat, dog, and cynomolgus monkey TRPA1 with IC50 of 55.7, 7.6 and 8.2 nM respectively.
LY3526318 is highly selective for the blockade of TRPA1 ion channel function, with IC50s > 32 μM across a panel of other ion channels.
LY3526318 inhibits CA-induced calcium responses in IMR-32 cells with IC50 of 0.82 nM, >10-fold more potent than comparator TRPA1 antagonists, A-967079, ruthenium red, and HC-030031.
LY3526318 potently inhibits CA-evoked release of CGRP from rat DRG cultured neurons with IC50 of 27.1 nM using an ELISA assay.
LY3526318 blocks formalin-evoked flinching behaviors and chronic Freund adjuvant–induced cold hypersensitivity in rats.

References

Bamps D, et al. ***Clin Pharmacol Ther.*** 2023 Nov;114(5):1093-1103.
2, Broad LM, et al. ***Pain***. 2025 Apr 18. doi: 10.1097/j.pain.0000000000003570.

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